


Grade 7 Advanced Math

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Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
CEQ: <ul style="list-style-type: none"> ● HOW ARE NUMBER SENSE AND MATHEMATICAL OPERATIONS APPLIED IN PRE-ALGEBRA? ● HOW ARE ALGEBRAIC EQUATIONS SOLVED AND LINEAR RELATIONSHIPS GRAPHED? ● HOW ARE FORMULAS USED TO MEASURE SURFACE AREA AND VOLUME OF GEOMETRIC FIGURES WITH CUSTOMARY 	Chapter 1: Algebraic Expressions A. Variable and expressions A1. Identify and write numerical and variable expressions A2. Evaluate variable expressions A3. Solve problems by evaluating expressions B. Order of operations B1. Apply the order of operations	Chapter 1: Algebraic Expressions Learning Target #1: I can identify, write, and evaluate numerical and variable expressions. (7.2.3.1) Learning Target #2: I can perform the order of operations using integers. (7.2.3.3) Learning Target #3: I can represent, graph, and order integers. I can determine absolute value. (7.1.2.6, 7.1.1.5, 7.1.1.4) Learning Target #4:	Chapter 1: Algebraic Expressions A. Variables and expressions B. Order of operations C. Integers and absolute value CFA: Quiz on A - C CSA: Chapter 1 TEST on A - E	Chapter 1: Algebraic Expressions Prentice Hall Mathematics: Algebra Readiness Unit Assessments: S:\Middle School\7th Grade\Math Stuff Key Vocabulary: <ul style="list-style-type: none"> ● absolute value ● expressions (numerical and variable) ● evaluate ● integers ● inverse operations ● order of operations ● variable

<p>AND METRIC SYSTEMS?</p> <ul style="list-style-type: none"> HOW ARE VARIOUS GRAPHS AND MEASURES OF CENTRAL TENDENCY USED TO MODEL DATA? <p>UEQ: Chapter 1 Algebraic Expressions</p>  <ul style="list-style-type: none"> <i>How can I use variables and operations to write an expression?</i> <i>How are integers used to perform operations?</i> <i>What is the meaning of absolute value and how can I determine its value?</i> 	<p>C. Integers and absolute value</p> <p>C1. Determine absolute value</p> <p>C2. Represent and order integers</p> <p>D. Operations with integers</p> <p>D1. Apply rules and use models to add, subtract, multiply, and divide integers</p> <p>E. Coordinate plane</p> <p>E1. Identify coordinates and quadrants</p> <p>E2. Graph ordered pairs</p>	<p>I can identify the parts of a coordinate plane and graph ordered pairs. (7.1.1.3)</p>		
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<ul style="list-style-type: none"> • <i>How are points graphed in a coordinate plane?</i> 				
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October

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
UEQ: Chapter 2 Solving One-Step Equations and Inequalities	Chapter 2: Solving One-Step Equations and Inequalities	Chapter 2: Solving One-Step Equations and Inequalities	Chapter 2: Solving One-Step Equations and Inequalities	Chapter 2: Solving One-Step Equations and Inequalities



- *How are the properties of numbers (identity, inverse, distributive, associative, and commutative) applied?*
- *How are equations written and solved?*
- *How are inequalities written, solved, and graphed?*

A. Properties of Numbers

A1. Identify and use properties

A2. Apply the distributive property to numerical and algebraic expressions

B. Variables, Variable Expressions, and Equations

B1. Identify parts of and simplify variable expressions

B2. Classify types of equations

B3. Check equations using substitution

C. Solving Equations Using Operations

C1. Use operations to solve equations

(7.2.2.4)

Learning Target #1:

I can identify and apply the properties of numbers (commutative, associative, identity, and distributive) (7.2.3.1)

Learning Target #2:

I can classify and solve one-step equations using inverse operations. (7.2.4.1)

Learning Target #3:

I can solve and graph one-step inequalities using inverse operations. (7.2.2.4)

A. Properties of Numbers

B. Variables, Variable Expressions, and Equations

CFA: QUIZ on A - B1

C. Solving Equations Using Operations

D. Solving One-Step Inequalities Using Operations

CFA: QUIZ on B2 - D1

CSA: Chapter 2 Test

Prentice Hall Mathematics: Algebra Readiness

Unit Tests

[S:\Middle School\7th Grade\Math Stuff](#)


Key Vocabulary:

- Commutative Property
- Associative Property
- Identity Property
- Distributive Property
- Coefficient
- Constant
- Like Terms
- Inverse Operations
- Equation
- Inequality
- Solution

	<p>D. Solving One-Step Inequalities Using Operations</p> <p>D1. Graph inequalities</p> <p>D2. Use operations to solve inequalities</p>			
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November

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
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<p>UEQ: Chapter 3 Decimals and Equations</p>  <ul style="list-style-type: none"> • <i>How can decimals be used to estimate and solve equations?</i> • <i>How do you convert metric units of measure?</i> 	<p>Chapter 3: Decimals and Equations</p> <p>A. Rounding and Estimating</p> <p>A1. Round Decimals</p> <p>A2. Estimate sums, differences, products, and quotients</p> <p>***Review All Decimal Operations</p> <p>B. Solving One-Step Equations Involving Decimals</p> <p>B1. Use the four operations to solve equations</p> <p>C. Formulas</p> <p>C1. Substitute into formulas</p> <p>D. Using Metric System</p> <p>D1. Convert Metric Units</p>	<p>Chapter 3: Decimals and Equations (7.1.2.1)</p> <p>Learning Target #1:</p> <p>I can round and estimate with decimals. (7.1.2.1)</p> <p>Learning Target #2:</p> <p>I can solve one-step equations that have decimals in them. (7.2.4.1)</p> <p>Learning Target #3:</p> <p>I can substitute into and evaluate formulas. (7.2.3.2)</p> <p>Learning Target #4:</p> <p>I can convert metric units of measurement. (7.2.2.2)</p>	<p>Chapter 3: Decimals and Equations</p> <p>A. Rounding and Estimating</p> <p>B. Solving One-Step Equations Involving Decimals</p> <p>CFA: QUIZ on A-B</p> <p>CSA: Chapter 3 Test</p>	<p>Chapter 3: Decimals and Equations</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Joe Decimal Movie Clips S:\Middle School\7th Grade\Math Stuff</p> <p>You Tube Video The Rappin' Mathematician Decimals http://www.youtube.com/watch?v...</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Compatible Numbers • Formula
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	D2. Identify Appropriate Metric Units			
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December

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 4 Factors, Fractions, and Exponents </p> <ul style="list-style-type: none"> • <i>How are expressions simplified using exponents?</i> • <i>How can fractions be simplified?</i> • <i>How can scientific notation be written and calculated?</i> • <i>How can problems be solved by first</i> 	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>A. Divisibility and Factors A1. Use divisibility tests A2. Find factors</p> <p>B. Exponents B1. Use exponents B2. Apply the Order of Operations with exponents</p> <p>C. Prime Factorization and Greatest Common Factor C1. Find prime</p>	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>Learning Target #1: I can find factors using divisibility tests and prime factorization. (7.1.1.5)</p> <p>Learning Target #2: I can simplify expressions with exponents. (7.1.2.1, 7.2.3.1)</p>	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>A. Divisibility and Factors B. Exponents C. Prime Factorization and Greatest Common Factor D. Fractions</p> <p>CFA: QUIZ on A - D</p> <p>E. Rational Numbers F. Exponents with Multiplication and Division</p>	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Prime • Composite • Factor

<p><i>solving a simpler problem?</i></p>	<p>factorization C2. Determine greatest common factor</p> <p>D. Fractions D1. Calculate equivalent fractions D2. Simplify fractions</p> <p>E. Rational Numbers E1. Identify rational numbers E2. Evaluate fractions containing variables</p> <p>F. Exponents with Multiplication and Division F1. Multiply powers with the same base F2. Find a power of a power F3. Divide powers with the same base F4. Simplify expressions with integer exponents</p> <p>G. Scientific Notation G1. Write, calculate, and evaluate scientific notation</p>	<p>Learning Target #3:</p> <p>I can simplify fractions with numbers and variables. (7.1.1.5)</p> <p>Learning Target #4:</p> <p>I can identify and evaluate expressions using rational numbers. (7.2.3.2)</p> <p>Learning Target #5:</p> <p>I can write numbers in standard and scientific notation.</p>	<p>CFA: QUIZ on E - F</p> <p>G. Scientific Notation</p> <p>CSA= Chapter 4 Unit Test</p>	<ul style="list-style-type: none"> ● Divisible ● Exponents ● Rational Number ● Scientific Notation ● Prime Factorization ● Greatest Common Factor (GCF)
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January

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
UEQ: Chapter 5 Operations with Fractions  <ul style="list-style-type: none"> How are operations performed with fractions? How are fractions used to solve equations? How are powers of products and quotients found? 	Chapter 5: Operations with Fractions A. Rational Numbers A1. Compare and Order B. Fractions and Decimals B1. Convert fractions to decimals B2. Convert decimals to fractions C. Operations with Fractions C1. Add C2. Subtract	Chapter 5: Operations with Fractions (7.1.2.1) Learning Target #1: I can convert, order, and graph fractions and decimals. (7.1.1.1, 7.1.1.5, 7.1.1.2) Learning Target #2: I can add, subtract, multiply, and divide fractions. (7.1.2.1)	Chapter 5: Operations with Fractions A. Rational Numbers B. Fractions and Decimals C. Operations with Fractions C1. Add C2. Subtract E. One-Step Equations E1. Solve equations by adding or subtracting fractions CFA: Quiz on A - C2 and	Chapter 5: Operations with Fractions Prentice Hall Mathematics: Algebra Readiness Unit Tests S:\Middle School\7th Grade\Math Stuff Learning Target Examples: S:\Middle School\7th Grade\Math Stuff


	<p>E. One-Step Equations E1. Solve equations by adding or subtracting fractions</p> <p>C. Operations with Fractions C3. Multiply C4. Divide</p> <p>E. One-Step Equations E2. Solve equations by multiplying fractions</p> <p>D. Customary Units of Measure D1. Convert between customary units D2. Apply dimensional analysis</p> <p>F. Powers of Products and Quotients F1. Find powers of products F2. Find powers of quotients</p>	<p>Learning Target #3:</p> <p>I can solve equations by adding, subtracting, multiplying, and dividing fractions. (7.2.4.1)</p> <p>Learning Target #4:</p> <p>I can find powers of products and quotients. (7.2.3.2)</p>	<p>E1</p> <p>C. Operations with Fractions C3. Multiply C4. Divide</p> <p>E. One-Step Equations E2. Solve equations by multiplying fractions</p> <p>D. Customary Units of Measure D1. Convert between customary units D2. Apply dimensional analysis</p> <p>CFA: Quiz on C3 - D and E2</p> <p>F. Powers of Products and Quotients</p> <p>CSA: Test on Chapter 5</p>	<p>Key Vocabulary:</p> <ul style="list-style-type: none"> ● Multiple ● Least Common Multiple (LCM) ● Reciprocal ● Repeating Decimal ● Terminating Decimal
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	<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>A. Ratios and Unit Rates A1. Determine ratios A2. Solve unit rates</p> <p>B. Proportions B1. Solve proportions B2. Apply proportions to problem solving</p> <p>C. Similar Figures and Scale Drawings C1. Determine unknowns in similar figures C2. Determine unknowns in scale drawings</p> <p>D. Fractions, Decimals,</p>		<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>A. Ratios and Unit Rates B. Proportions C. Similar Figures and Scale Drawings</p> <p>CFA: Quiz on A - C</p> <p>D. Fractions, Decimals, and Percents E. Percents with Proportions and Equations F. Percent of Change</p>	<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Percent of Decrease Biggest Loser You Tube</p>
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<p style="text-align: center;"> UEQ: Chapter 6 Ratios, Proportions, and Percents   <i>How are percents used and found?</i> </p>	<p> and Percents D1. Write percents as fractions and decimals D2. Write decimals as fractions and percents D3. Order rational numbers E. Percents with Proportions and Equations E1. Find parts, wholes, and percents with proportions E2. Find parts, wholes, and percents with equations F. Percent of Change F1. Determine percent of increase F2. Determine percent of decrease G. Markup and Discount G1. Calculate markup G2. Calculate discount </p>	<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>Learning Target #1:</p> <p>I can write and simplify ratios and rates. (7.2.2.1)</p> <p>Learning Target #2:</p> <p>I can write and solve proportions like these: (7.1.2.5)</p> <p>Learning Target #3:</p> <p>I can find probability and odds. For example, I can solve problems like these: What is the probability of rolling a 2 on a number cube (die)? What are the odds in favor of rolling a number less than 3 on a number cube (die)?</p> <p>Learning Target #4:</p> <p>I can convert between and order fractions,</p>	<p>CFA: Quiz on D - F</p> <p>G. Markup and Discount</p> <p>CSA: Chapter 6 Test</p>	<p>clip http://www.youtube.com/watch?v=FxFynAO6I6w&feature=related http://www.youtube.com/watch?v=LdyK9121NQo&feature=related</p> <p>Learning Target Examples:</p> <p>S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> ● Ratios ● Unit Rates ● Percent ● Proportion ● Markup ● Discount ● Commission ● Scale Drawing ● Similar Figure
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		<p>decimals, and percents. (7.2.2.4)</p> <p>Learning Target #4:</p> <p>I can solve equations representing proportional relationships. (7.2.4.2)</p> <p>Learning Target #5:</p> <p>I can solve percent problems in various contexts (7.2.2.2)</p> <p>Learning Target #6:</p> <p>I can use properties of similar figures to find side lengths of similar figures. (7.3.2.1, 7.2.2.3, 7.3.2.2)</p>		<ul style="list-style-type: none">● Percent of Change
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February


Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 7 Solving Equations and Inequalities </p> <ul style="list-style-type: none"> How are multi-step equations written and solved? <p>How are two-step inequalities written and solved?</p> <p>How are simple and compound interest calculated?</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>A. Multi-Step Equations A1. Use properties to solve multi-step equations A2. Combine like terms A3. Apply the distributive property A4. Solve multi-step equations with fractions and decimals A5. Apply the writing equations problem solving strategy</p> <p>B. Equations with Variables on Both Sides B1. Solve equations B2. Use equations</p> <p>C. Two-Step Inequalities C1. Solve inequalities C2. Use inequalities</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>Learning Target #1: I can write and solve multi-step equations like these: $4(m-7) + 5m = 6m + 2$ (7.2.4.1)</p> <p>Learning Target #2: I can write and solve two-step inequalities like these: $6a + 3 > 27$ (7.2.2.4)</p> <p>Learning Target #3: I can calculate simple and compound interest. (7.1.2.3, .7.1.2.4)</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>A. Multi-Step Equations CFA: Quiz on A</p> <p>B. Equations with Variables on Both Sides C. Two-Step Inequalities D. Transforming Formulas CFA: Quiz on B - D</p> <p>E. Simple and Compound Interest CSA: Chapter 7 Test</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> Interest Simple Interest Compound Interest Interest Rate Principal

**D. Transforming
Formulas
D1. Solve formulas
D2. Use formulas**

**E. Simple and
Compound Interest
E1. Solve simple-interest
E2. Solve
compound-interest**

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March

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 8 Linear Functions and Graphing </p> <ul style="list-style-type: none"> • <i>When is a relation a function?</i> • <i>How are linear equations and inequalities solved?</i> • <i>How are systems of linear equations and inequalities solved?</i> • <i>How is a problem solved by graphing?</i> <p>A. Relations and Functions B. Equations with Two Variables C. Slope and Y-Intercept D. Rules for Linear Functions E. Scatter Plots</p>	<p>Chapter 8 Linear Functions and Graphing</p> <p><i>Skip Lesson 8-1 (Incorporate the Vertical Line Test from this lesson in Lessons 2 and 3)</i></p> <p>B. Equations with Two Variables B1. Solve two-variable equations B2. Graph two-variable equations</p> <p>C. Slope and Y-Intercept C1. Determine slope and y-intercept C2. Use slope and y-intercept to graph linear equations</p> <p>D. Rules for Linear Functions <i>(SKIP Example 1 from</i></p>	<p>Chapter 8 Linear Functions and Graphing</p> <p>Learning Target #1: I can write, graph, and identify the parts of linear equations like these: $y = 2x - 3$ or $y = -2x + 7$ (7.2.2.1)</p> <p>Learning Target #2: I can use the slope-intercept form of linear equations/graphs/tables. $y = mx + b$ (7.2.2.1)</p> <p>Learning Target #3:</p>	<p>Chapter 8 Linear Functions and Graphing</p> <p>A. Vertical Line Test B. Equations with Two Variables C. Slope and Y-Intercept D. Rules for Linear Functions</p> <p>A-D. Summative Quiz #1 - short answer (CSA)</p> <p>F. Systems of Linear Equations</p> <p>G. Systems of Linear Inequalities</p> <p>F - G. Summative Quiz #2 - short answer (CSA)</p>	<p>Chapter 8 Linear Functions and Graphing</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Function • Linear Equation • Linear Inequality • Slope • Y-Intercept • Slope - Intercept Form • Constant of Variation

<p>F. Systems of Linear Equations G. Systems of Linear Inequalities</p>	<p><i>Lesson 8-4 for Regular Classes)</i> D2. Write rules from tables and graphs</p> <p>F. Systems of Linear Equations F1. Graph systems of linear equations F2. Use systems of linear equations</p> <p>G. Systems of Linear Inequalities G1. Graph linear inequalities G2. Graph systems of linear inequalities</p> <p><i>***After Chapter 8: Teach Lesson 12-1 on Histograms and Complete the Stem and Leaf Plot Activity Lab from page 646 before moving on to Chapter 9</i></p> <p><i>(Only formative assessments used for these</i></p>	<p>I can solve and graph systems of linear equations like these:</p> $y = x + 5; y = -2x + 8$ <p>(7.2.2.1)</p> <p>Learning Target #4:</p> <p>I can solve and graph systems of linear inequalities like these:</p> $y < -x + 1; y > 2x - 5$ <p>Learning Target #5:</p> <p>I can identify if a linear relationship is proportional in a graph/table/equation.</p> <p>(7.2.1.1, .7.2.1.2)</p>		<ul style="list-style-type: none"> ● Direct Variation
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	<i>two lessons)</i>			
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April

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 9: Spatial Thinking </p> <p></p> <ul style="list-style-type: none"> • <i>How are properties of figures used to solve problems?</i> • <i>How are geometric figures classified?</i> • <i>How can drawing a diagram help to solve a problem?</i> <p>A. Points, Lines, and Planes B. Angles and Parallel Lines C. Polygons D. Congruence E. Circles F. Translations G. Symmetry and</p>	<p>Chapter 9: Spatial Thinking</p> <p>D. Congruence D1. Identify corresponding parts D2. Identify congruent triangles</p> <p>E. Circles E1. Find circumference E2. Construct circle graphs</p> <p>F. Translations F1. Graph translations F2. Describe translations</p> <p>G. Symmetry and Reflections G1. Identify lines of symmetry G2. Graph reflections</p>	<p>Chapter 9: Spatial Thinking</p> <p>Learning Target #1: I can identify the congruent parts of triangles. (7.3.2.1)</p> <p>Learning Target #2: I can find the circumference of a circle. (7.3.1.1) I can make a circle graph using central angles. (7.4.2.1)</p> <p>Learning Target #3: I can graph transformations (translations, reflections,</p>	<p>Chapter 9: Spatial Thinking</p> <p>D. Congruence E. Circles F. Translations G. Symmetry and Reflections H. Rotations</p> <p>CA= Chapter 9, Lessons 5-6, and 8-10 Summative QUIZ -short answer (CSA)</p>	<p>Chapter 9: Spatial Thinking</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Congruence • Circumference • Radius • Diameter • Symmetry • Reflection • Rotation • Translation

Reflections H. Rotations	H. Rotations H1. Graph rotations H2. Recognize rotational symmetry	and rotations) on a coordinate plane. (7.3.2.4)		
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May

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 10 Area and Volume </p> <p></p> <ul style="list-style-type: none"> <i>How is the volume of 3-D figures calculated?</i> <p>A. Area: Parallelograms B. Area: Triangles and Trapezoids C. Area: Circles</p> <p>D. Surface Area: Prisms and Cylinders E. Volume: Prisms and Cylinders</p>	<p>Chapter 10: Area and Volume</p> <p>A. Area: Parallelograms A1. Calculate area of rectangles A2. Calculate area of parallelograms</p> <p>B. Area: Triangles and Trapezoids B1. Determine area of triangles B2. Determine area of trapezoids</p> <p>C. Area: Circles C1. Find area of circles</p>	<p>Chapter 10: Area and Volume</p> <p>Learning Target #1:</p> <p>I can find the area of parallelograms, triangles, trapezoids and circles. (7.3.2.2)</p> <p>Learning Target #2:</p> <p>I can find the surface area of prisms and cylinders. (7.3.1.2)</p> <p>Learning Target #3:</p>	<p>Chapter 10: Area and Volume</p> <p>A. Area: Parallelograms B. Area: Triangles and Trapezoids C. Area: Circles</p> <p>A-C. Summative Quiz #1 - short answer (<i>CSA</i>)</p> <p>D. Surface Area: Prisms and Cylinders</p> <p>E. Volume: Prisms and Cylinders</p> <p>D-E. Summative Quiz #2 -</p>	<p>Chapter 10: Area and Volume</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> Area Lateral Area Surface Area

	<p>C2. Find area of irregular figures</p> <p>D. Surface Area: Prisms and Cylinders D1. Calculate surface area of prisms D2. Calculate surface area of cylinders</p> <p>E. Volume: Prisms and Cylinders E1. Find volume of prisms E2. Find volume of cylinders</p> <p>A. Square Roots and Irrational Numbers</p>	<p>I can find the volume of prisms and cylinders. (7.3.1.2)</p> <p>Learning Target #4: I can find the area of circles and sectors. (7.3.1.1)</p> <p>Learning Target #1:</p>	<p><i>short answer (CSA)</i></p> <p>A. Square Roots and Irrational Numbers</p>	<ul style="list-style-type: none"> ● Volume ● Cylinder ● Prism
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<p>UEQ: Chapter 11 Right Triangles in Algebra</p> <p><i>How is the square root of numbers determined? How are the missing measures of right triangles calculated? How are the distance and midpoint formulas applied?</i></p> <p>A. Square Roots and Irrational Numbers B. Pythagorean Theorem C. Distance and Midpoint Formulas D. Special Right Triangles E. Sine, Cosine, and Tangent Ratios F. Angles of Elevation and Depression</p>	<p>A1. Find square roots A2. Classify real numbers</p> <p>B. Pythagorean Theorem B1. Apply the Pythagorean Theorem B2. Identify right triangles</p> <p>C. Distance and Midpoint Formulas C1. Find distance C2. Find midpoint</p> <p>D. Special Right Triangles D1. Use 45-45-90 triangles D2. Use 30-60-90 triangles</p> <p>E. Sine, Cosine, and Tangent Ratios E1. Find ratios in right triangles E2. Apply ratios to solve problems</p>	<p>I can find square roots (7.1.1.1)</p> <p>Learning Target #2: I can determine the distance between rational and irrational numbers. (7.1.1.1)</p>	<p>B. Pythagorean Theorem C. Distance and Midpoint Formulas A-C. Checkpoint Quiz #1 - short answer (CFA)</p> <p>D. Special Right Triangles E. Sine, Cosine, and Tangent Ratios D-E. Checkpoint Quiz #2 - short answer (CFA)</p> <p>F. Angles of Elevation and Depression</p> <p>CA= Chapter 11 Unit Test - short answer (CSA)</p>	
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<p>UEQ: Selected Lessons from Chapter 12</p>	<p>F. Angles of Elevation and Depression F1. Use sine, cosine, and tangent to determine angle of elevation F2. Use sine, cosine, and tangent to determine angle of depression</p> <p>A. Frequency Tables, Line Plots, and Histograms A1. Use frequency tables and line plots A2. Display data using histograms</p> <p>B. Counting Outcomes and Theoretical Probability B1. Count possible</p>	<p>Learning Target #1: I can display data in frequency tables, line plots, histograms, stem-and-leaf plots. (7.4.1.1)</p> <p>Learning Target #2: I can calculate probability. (7.4.1.1)</p>	<p><i>A. Frequency Tables, Line Plots, and Histograms</i> <i>B. Counting Outcomes and Theoretical Probability</i> <i>C. Experimental Probability</i> <i>A-C. Quiz , 10 questions short answer (CFA)</i></p>	
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<p>Data Analysis and Probability</p> <p><i>How are graphs used to represent data?</i></p> <p><i>How are theoretical and experimental probability determined?</i></p> <p>A. Frequency Tables, Line Plots, and Histograms</p> <p>B. Counting Outcomes and Theoretical Probability</p> <p>C. Experimental Probability</p>	<p>choices</p> <p>B2. Determine probability by counting outcomes</p> <p>C. Experimental Probability</p> <p>C1. Calculate experimental probability</p> <p>C2. Simulate an event</p>	<p>Learning Target #3:</p> <p>I can calculate mean, median, mode, range, and outlier. (7.4.1.2)</p>	<p><i>CA=Chapter 12 Unit Test, 25 questions short answer (CSA)</i></p>	
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